

Data transformations without Data Engineering?

How Agrico builds dashboards in no time with Analytics Engineering



Today's speakers



Iga Jarosz

Analytics Engineer
Digital Power



Mark Kranenburg

CFO
Agrico



Outline

What will we cover today?

1. Introduction Agrico
2. Introduction Digital Power
3. What do Analytics Engineers do?
4. Agrico's challenge
5. Our set-up, architecture & business context
6. What can you gain with Analytics Engineering?
7. Questions



Say potato,
say **Agrico.**



Who we are



The challenges in today's world

....and how we cope with them

Growing demand



Operational effort to
optimize yields and add
acreage

Growing conditions



R&D driven efforts
to introduce new varieties

Technology



ICT driven efforts to become
data driven

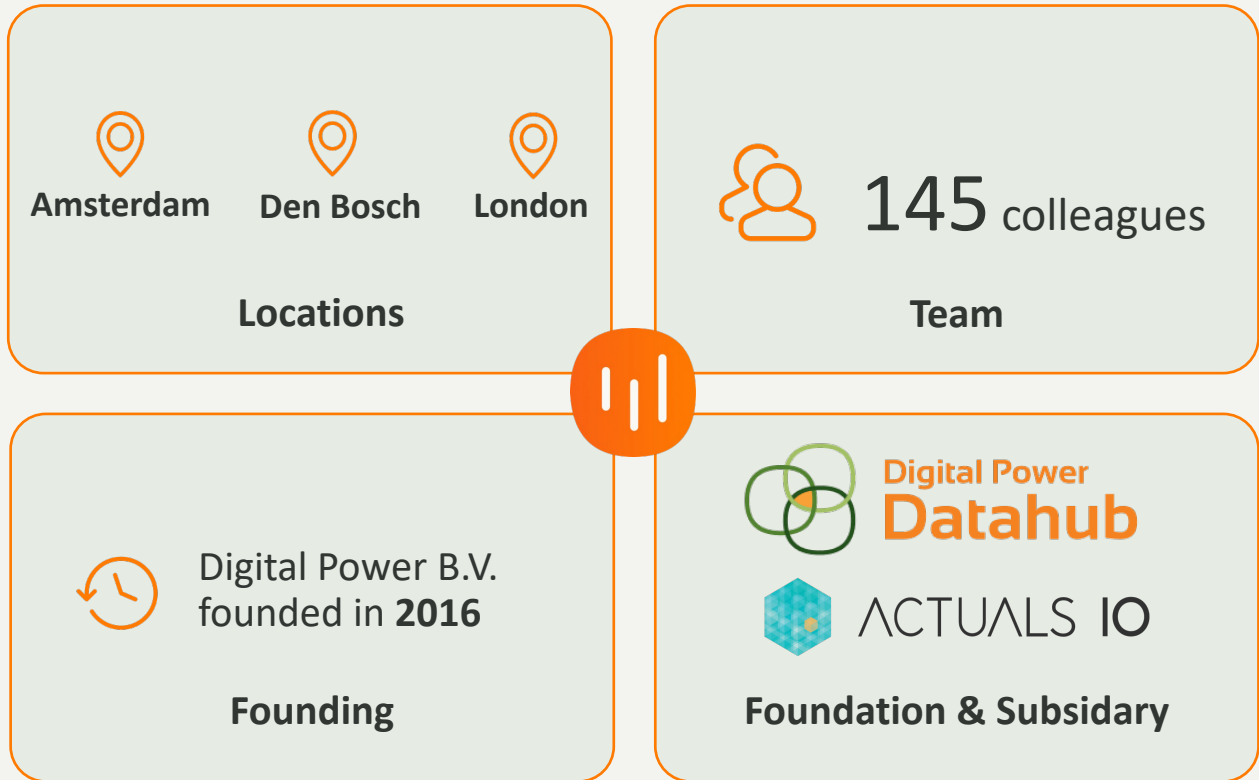


Our goal is to seek "good growth"

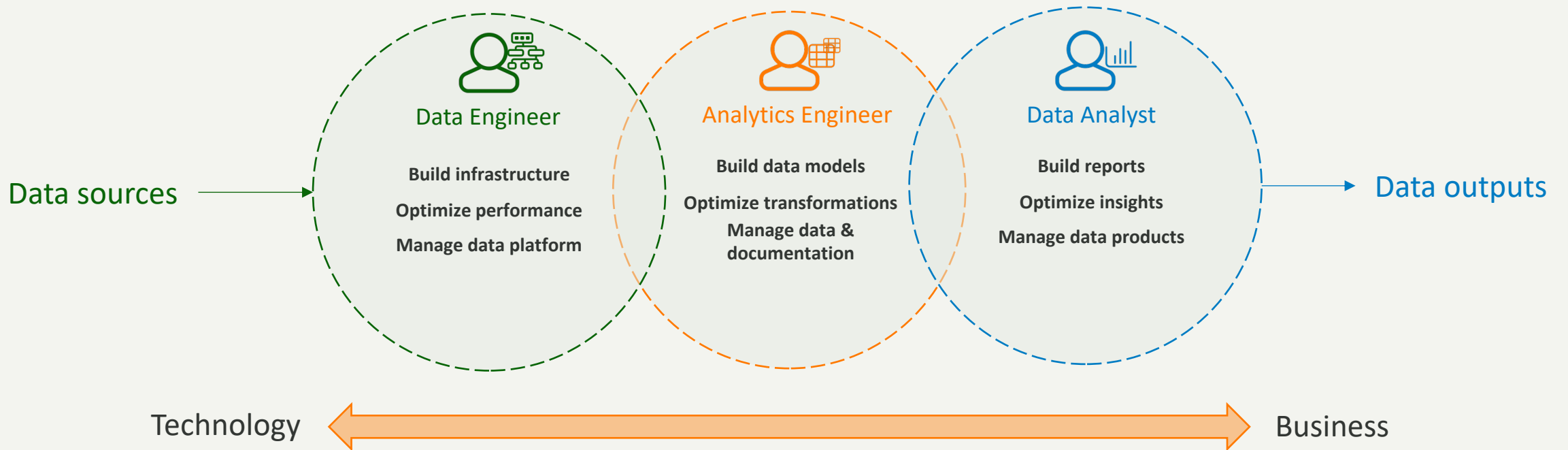
....but what does that mean?



About Digital Power



What do Analytics Engineers do?



The typical ERP¹ conditions do not apply

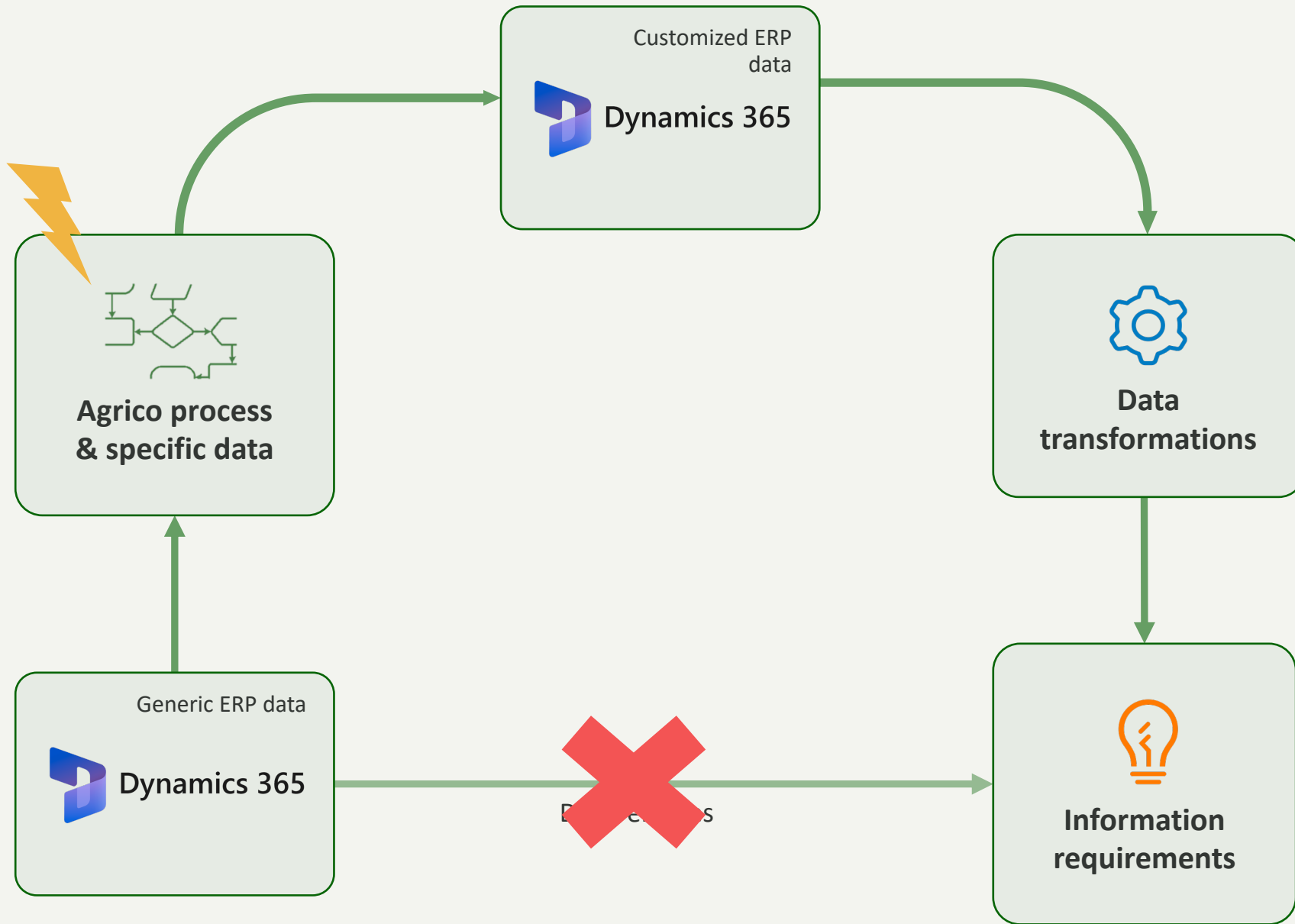
Our business and the processes applied are very different....

#	The typical ERP system	The situation at Agrico
1	Continuous process	Season based
2	Article / product structure fixed	Same physical product, different articles
3	Volumes / stocks known	Volumes / stocks estimated
4	Prices known	Prices determined at year end
5	Sales = delivery	Volumes invoiced differ from volumes delivered ("Tarra")



**DIGITAL
POWER**

1. ERP = Enterprise Resource Planning

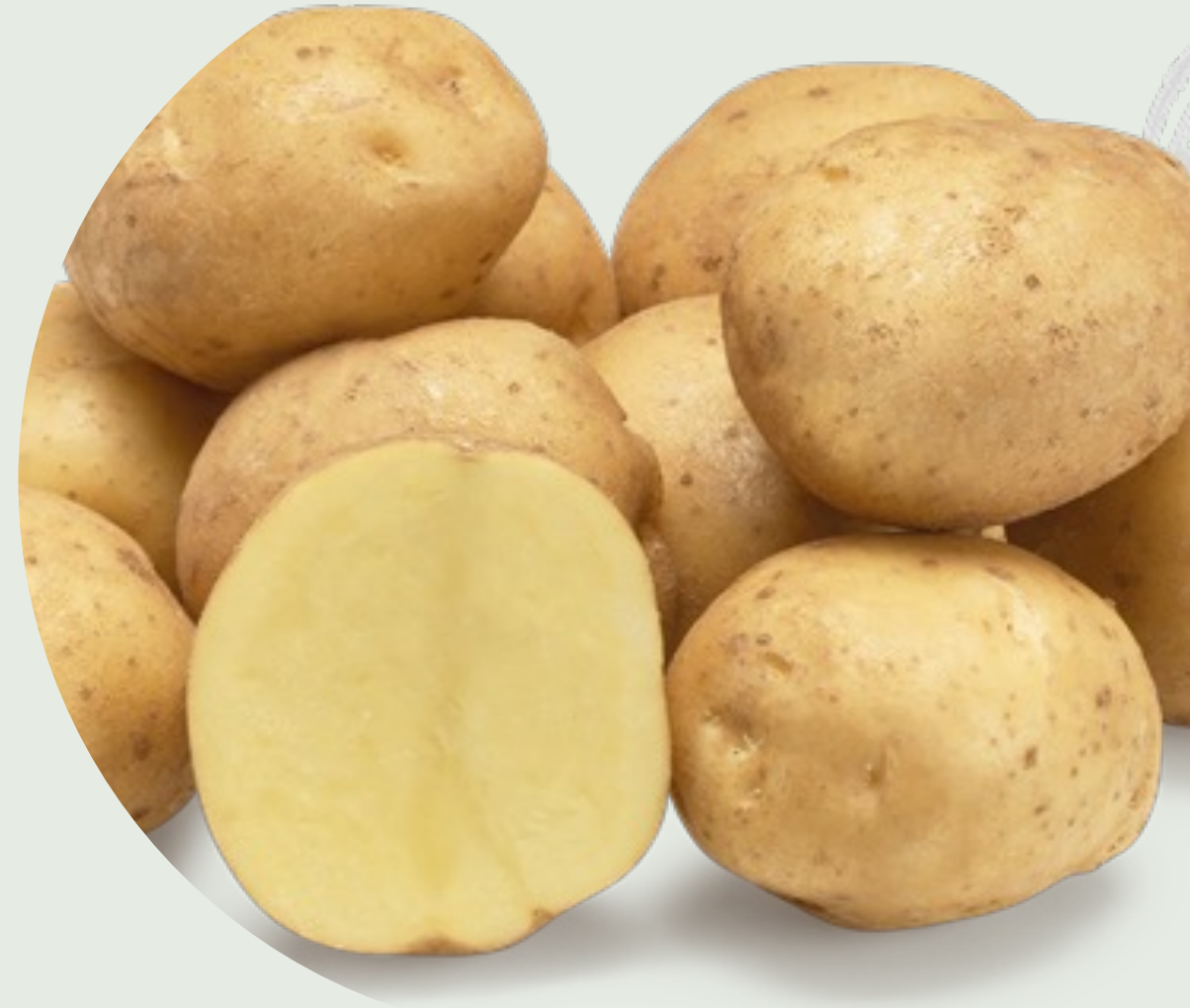


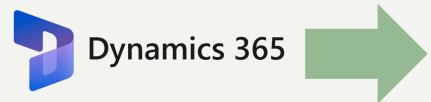
Agrico's challenge



Our set-up, architecture & business context

How do we address the
challenge?





Supporting tools & services

Costs control Monitoring Key vault Version control

GitHub

Business logic & transformations

dbt

Processing engine

databricks

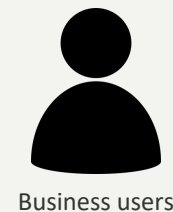
Raw data Intermediate data models Final data models

Azure

Landing zone bronze silver gold

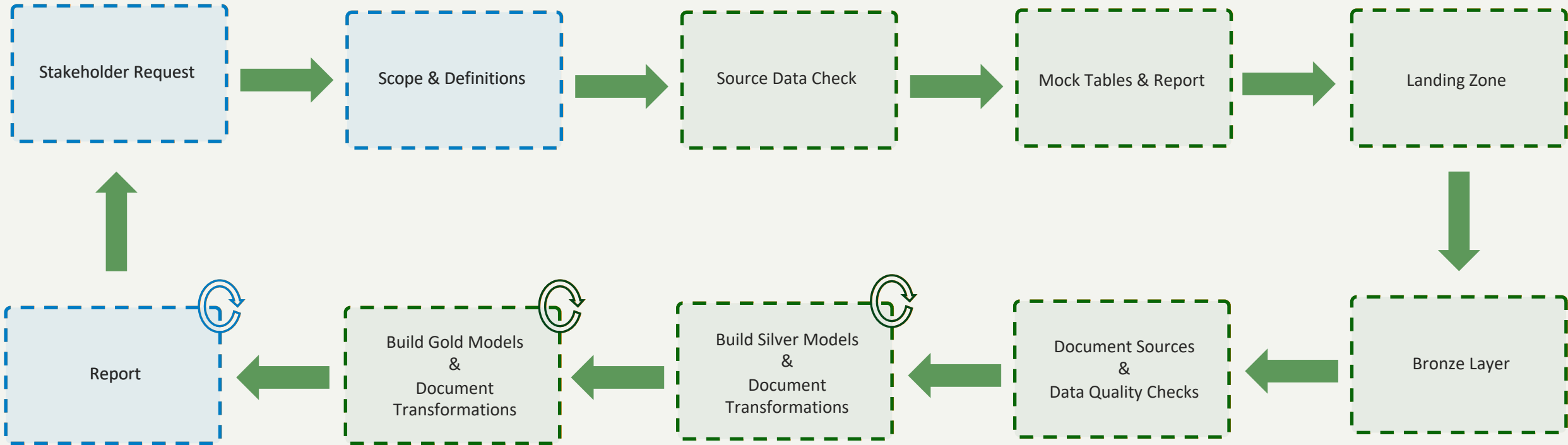
Serving

Power BI



DIGITAL POWER

General Workflow



What can you gain with Analytics Engineering?



Improved Data Quality



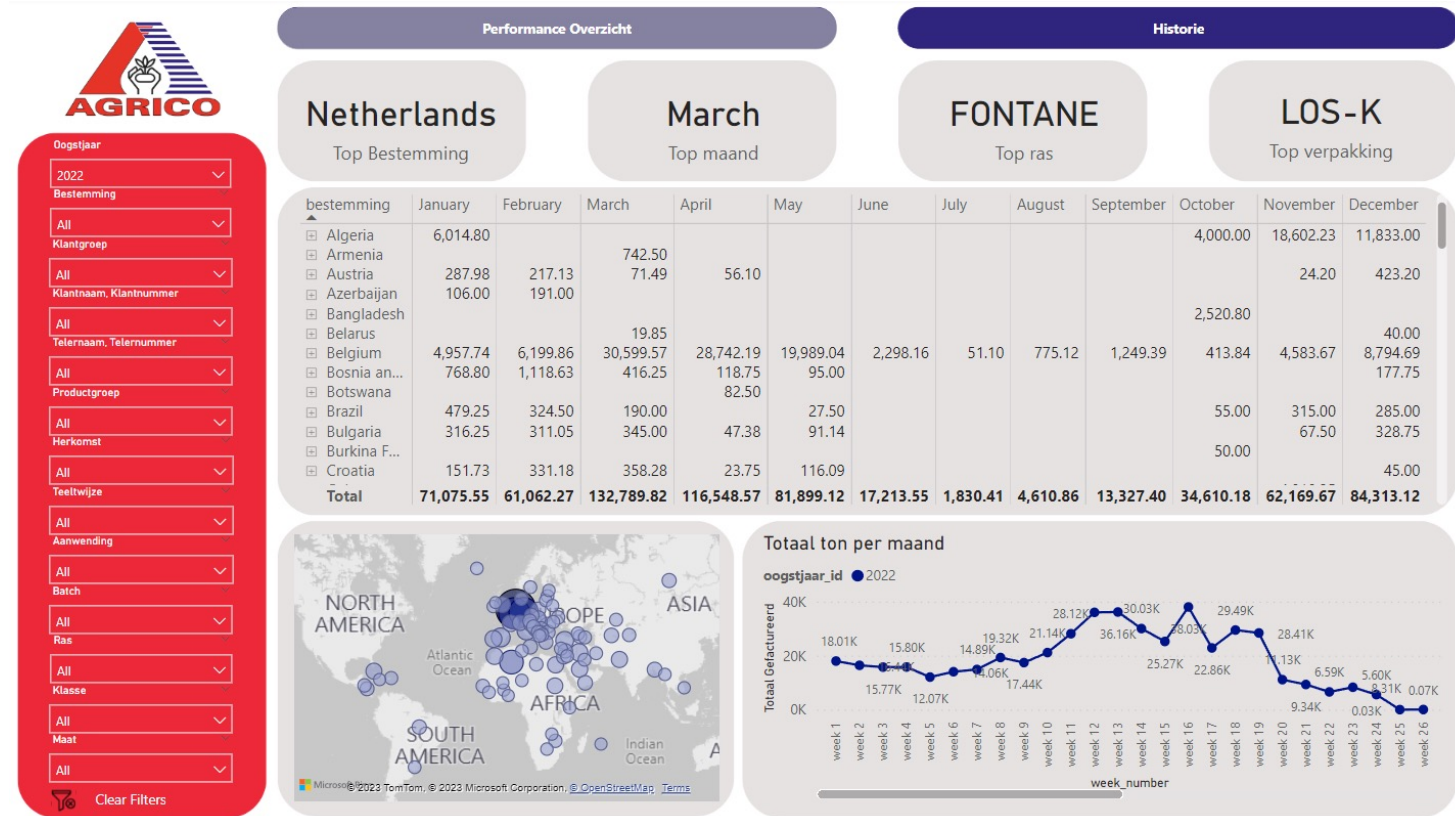
Faster Time-to-Insight



Reproducibility & Documentation



Collaboration & Communication





Iga Jarosz

Analytics Engineer
Digital Power



Mark Kranenburg

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Questions?

You can also find us at booth 8!



Analytics Engineers in their natural habitat



&

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